

Section 49 Piling

4-4901 General

Section 49, “Piling,” of the *Standard Specifications* includes specifications for cast-in-place concrete, steel, timber, and precast prestressed concrete piling. The plans may show or the special provisions require other materials for piling. For detailed information regarding piling, see the Office of Structure Construction’s (OSC) *Foundation Manual* and Section 130, “Foundations,” of the *Bridge Construction Records and Procedures Manual*.

<http://www.dot.ca.gov/hq/esc/construction/manuals/OSCCCompleteManuals>

4-4902 Before Work Begins

Before work begins, do the following:

- Review project plans to determine locations where piling operations will be adjacent to traffic lanes open to the public. Require the contractor to submit for approval a pile-handling plan for those locations. Review and approve the plan before allowing the contractor to start piling operations.
- At the start of a project, do a field review of locations where piling is to be installed, and check for overhead obstructions and underground utilities that the project plans may not have addressed. Early identification of conflicts can avoid lengthy and costly project delays.
- Verify the receipt and proper distribution of form CEM-3101, “Notice of Materials to Be Used,” which lists piling materials.
- For instructions on preparing pile records to keep during piling operations, review Bridge Construction Memo 3-7.0, “Pile Records,” of the *Bridge Construction Records and Procedures Manual*.
- Before the contractor begins operations, review both sources of information and the contractor’s pile handling plan, if required, in a tailgate safety meeting.

4-4903 During the Course of Work

Piling operations are dangerous. The OSC *Foundation Manual* contains safety information for piling operations. Also, the OSC Code of Safe Practices contains guidelines to follow for various piling operations.

Record drilling and driving information required in Bridge Construction Memo 3-7.0. At the completion of the piling operation, forward the collected piling information to the OSC office in Sacramento.

4-4904 Measurement and Payment

For piling in place, measure by the foot the longest side from the tip of the pile to the plane of pile cutoff. Driven piles include an added item for driving each pile. Record information about drilling, driving, and measurements according to Bridge Construction Memo 3-7.0.